CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/KVS/WMM/Gradation/2014-15 : 03.05.2013

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. K.V. Subba Reddy,** Contractor, Bangalore.

Name of Work : Construction of CC drain with Covering Slab from Kodigehalli circle to Govt School in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/TEND/02(89)/W.O/73/12-13 Dated: 14.08.2012

Date of Testing : 03.05.2013

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **26100**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	900	900	3.4	96.6	95-100
22.4	4580	5480	21.0	79.0	60-80
11.2	5560	11040	42.3	57.7	40-60
4.75	5020	16060	61.5	38.5	25-40
2.36	4650	20710	79.3	20.7	15-30
0.600	2505	23215	88.9	11.1	8-22
0.075	2550	25765	98.7	1.3	0-8

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

AE-08

M/s. Civil-Tech Consultants & Engineers
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Job No.: CTCE/BBMP/W.No.08/KVS/SDBC/Bitumen/2014-15 10.05.2013

BITUMEN CONTENT AND GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

AASHTO T 164 & AASHTO T 30

CLIENT	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	**Mr. K.V. Subba Reddy,** Contractor, Bangalore.
NAME OF THE WORK	Construction of CC drain with Covering Slab from Kodigehalli circle to Govt School in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	EE/BTP/BBMP/TEND/02(89)/W.O/73/12-13 Dated: 14.08.2012
SAMPLE I/D	Covering Slab from Kodigehalli circle to Govt School in Ward No.08.
DATE OF TESTING	10.05.2013

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	474	475
3. Weight of Asphalt and Mineral matter Extracted,	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	26	25.00
7. Bitumen content in %	5.20	5.00
8. Average	**5.10**	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Trail 1				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	36.52	7.70	7.70	92.30	90-100
4.75	261.3	55.13	62.83	37.17	35-51
2.36	56.45	11.91	74.74	25.26	24-39
1.18	41.23	8.70	83.44	16.56	15-30
0.3	28.96	6.11	89.55	10.45	9-19
0.075	27.32	5.76	95.31	4.69	3-8

SIEVE SIZE	Trail 2				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	26.13	5.23	5.23	94.77	90-100
4.75	241.6	48.32	53.55	46.45	35-51
2.36	91.56	18.31	71.86	28.14	24-39
1.18	51.56	10.31	82.17	17.83	15-30
0.3	31.89	6.38	88.55	11.45	9-19
0.075	21.56	4.31	92.86	7.14	3-8

Note:

- This test report should not be reproduced except in full, without written approval of the laboratory
- The results indicated above are based on the tests carried out on the samples received in the laboratory
- Any Query regarding the report must be reported within 15 days from the date of testing.

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